

Form PTO-1449

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)  
4348US (MUEI-  
0547.00/US)Application Number  
09/944,472

Applicant Jam s J. H warth

Filing Date August 30, 2001

Group Art Unit Unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
2	3,932,934	January 20, 1976	Lynch et al.			
2	4,142,286	March 6, 1979	Knuth et al.			
2	4,528,747	July 16, 1985	Hoffman et al.			
2	5,688,127	November 18, 1997	Staab et al.			
2	4,722,135	February 2, 1988	Read			
2	4,733,462	March 29, 1988	Kawatani			
2	4,810,154	March 7, 1989	Klemmer et al.			
2	4,940,181	July 10, 1990	Juskey, Jr. et al.			
2	4,975,079	December 4, 1990	Beaman et al.			
2	4,985,107	January 15, 1991	Conroy et al.			
2	5,006,792	April 9, 1991	Malhi et al.			
2	5,034,802	July 23, 1991	Liebes, Jr. et al.			
2	5,051,339	September 24, 1991	Friedrich et al.			
2	5,051,813	September 24, 1991	Schneider et al.			
2	5,056,216	October 15, 1991	Madou et al.			
2	5,074,036	December 24, 1991	Dunaway et al.			
2	5,155,905	October 20, 1992	Miller, Jr.			
2	5,164,818	November 17, 1992	Blum et al.			
2	5,189,507	February 23, 1993	Carlomagno et al.			
2	5,203,075	April 20, 1993	Angulas et al.			
2	5,255,431	October 26, 1993	Burdick			
2	5,329,423	July 12, 1994	Scholz			
2	5,337,219	August 9, 1994	Carr et al.			
2	5,376,010	December 27, 1994	Petersen			
2	5,400,220	March 21, 1995	Swamy			
2	5,403,671	April 4, 1995	Holzmann			
2	5,435,482	July 25, 1995	Variot et al.			

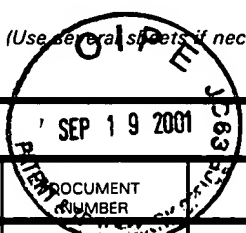
EXAMINER

DATE CONSIDERED

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		Applicant <b>Jam s J. H warth</b>			
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
7	5,435,732	July 25, 1995	Angulas et al.			
1	5,442,852	August 22, 1995	Danner			
2	5,446,960	September 5, 1995	Isaacs et al.			
2	5,453,581	September 26, 1995	Liebman et al.			
2	5,459,287	October 17, 1995	Swamy			
2	5,463,191	October 31, 1995	Bell et al.			
2	5,477,086	December 19, 1995	Rostoker et al.			
2	5,477,933	December 26, 1995	Nguyen			
2	5,521,427	May 28, 1996	Chia et al.			
2	5,526,974	June 18, 1996	Gordon et al.			
2	5,528,461	June 18, 1996	Gore et al.			
2	5,556,293	September 17, 1996	Pfaff			
2	5,578,870	November 26, 1996	Farnsworth et al.			
2	5,611,705	March 18, 1997	Pfaff			
2	5,637,008	June 10, 1997	Kozel			
2	5,637,919	June 10, 1997	Grabbe			
2	5,639,323	June 17, 1997	Jordan			
2	5,646,447	July 8, 1997	Ramsey et al.			
2	5,669,774	September 23, 1997	Grabbe			
2	5,691,041	November 25, 1997	Frankeny et al.			
2	5,702,255	December 30, 1997	Murphy et al.			
2	5,716,222	February 10, 1998	Murphy			
2	5,726,502	March 10, 1998	Beddingfield			
2	5,730,606	March 24, 1998	Sinclair			
2	5,767,580	June 16, 1998	Rostoker			
2	5,770,891	June 23, 1998	Frankeny et al.			
2	5,796,590	August 18, 1998	Klein			

EXAMINER 	DATE CONSIDERED 6/26/03
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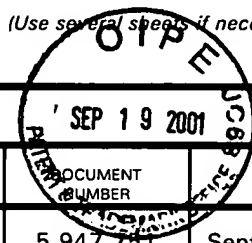
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Docket Number (Optional)  
**4348US (MUEI-  
0547.00/US)**

Application Number  
**09/944,472**
Applicant **James J. H warth**

Filing Date August 30, 2001

Group Art Unit **Unknown**

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>D</i>	5,947,781	September 7, 1999	Massingill			
<i>2</i>	5,955,888	September 21, 1999	Frederickson et al.			
<i>2</i>	5,983,477	November 16, 1999	Jacks et al.			
<i>2</i>	6,018,249	January 25, 2000	Akram et al.			
<i>2</i>	6,026,566	February 22, 2000	Urban et al.			
<i>2</i>	6,036,503	March 14, 2000	Tsuchida			
<i>2</i>	6,037,667	March 14, 2000	Hembree et al.			
<i>2</i>	6,040,618	March 21, 2000	Akram			
<i>2</i>	6,042,387	March 28, 2000	Jonaidi			
<i>2</i>	6,084,781	July 4, 2000	Klein			

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(Including Author, Title, Date, Pertinent Pages, Etc.)

<i>D</i>	Karl J. Puttlitz et al., <i>C-4/CBGA Comparison with Other MLC Single Chip Package Alternatives</i> , IEEE Transactions on Components, Packaging and Manufacturing Technology-Part B, Vol. 18, No. 2, May 1995, Pages 250-256.
<i>D</i>	Lewis S. Goldmann, <i>Statistical Model for the Inherent Tilt of Flip-Chips</i> , Transactions of the ASME, Vol. 118, March 1996, Pages 16-20.
<i>D</i>	Patrick J. Nasiatka et al., <i>Determination of Optical Solder Volume for Precision Self-Alignment of BGA using Flip-Chip Bonding</i> , Department of Electrical and Electronic Engineering, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong.

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PTO/SB/08A (10-01)

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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

1

Attorney Docket Number

*Complete if Known*

Application Number

09/944.472

Filing Date

August 30, 2001

First Named Inventor

James J. Howarth

Group Art Unit

2815

Examiner Name

S. Clark

Attorney Docket Number

4348US (MUEI-0547.00/US)

## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
0		US- 3,678,385	07/18/1972	Bruner	
0		US- 3,882,807	05/13/1975	Montgomery	
0		US- 4,958,214	09/18/1990	Ries et al.	
0		US- 5,349,236	09/20/1994	Oshino et al.	
0		US- 5,369,550	11/29/1994	Kwon	
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0		US- 5,530,291	06/25/1996	Chan et al.	
0		US- 5,643,835	07/01/1997	Chia et al.	
0		US- 5,714,792	02/03/1998	Przano	
0		US- 5,766,978	06/16/1998	Johnson	
0		US- 5,793,618	08/11/1998	Chan et al.	
0		US- 5,892,245	04/06/1999	Hilton	
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0		US- 5,982,027	11/09/1999	Corisis	
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0		US- 6,048,744	04/11/2000	Corisis et al.	

## FOREIGN PATENT DOCUMENTS

[illegible]

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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